

**COMBINED DECLARATION AND POWER OF ATTORNEY**

**As a below named inventor, I hereby declare that:**

This declaration is of the following type:

- ☒ original  
☐ divisional  
☐ continuation  
☐ continuation-in-part

**INVENTORSHIP IDENTIFICATION**

**Mak, Alfred; Chang, Mei; Byun, Jeong Soo; Chung, Hua; Sinha, Ashok and Kori, Moris**

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

**SYSTEM AND METHOD TO FORM A COMPOSITE FILM STACK  
UTILIZING SEQUENTIAL DEPOSITION TECHNIQUES**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☒ is attached hereto  
☐ was filed on \_\_\_\_\_, under Serial No. \_\_\_\_\_, executed on even date herewith;  
or [\_\_\_\_\_] Express Mail No.(as Serial No. not yet known) and was amended on  
\_\_\_\_\_ (if applicable)  
☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed on  
\_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

[illegible]

☒ No such applications have been filed.  
☐ Such applications have been filed as follows:

- | <u>Country/PCT</u>       | <u>Application No</u> | <u>Date Filed</u>        | <u>Priority Claimed</u> |  |
|--------------------------|-----------------------|--------------------------|-------------------------|--|
| <input type="checkbox"/> | Yes                   | <input type="checkbox"/> | No                      |  |
| <input type="checkbox"/> | Yes                   | <input type="checkbox"/> | No                      |  |

- Country:  
Application No:  
Filing date:

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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-2-

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I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Kenneth C. Brooks	Registration No. 38,393

**Send correspondence to:**

Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
POBox 450A  
Santa Clara, CA 95052

**Direct telephone calls to:**

Kenneth C. Brooks  
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(512) 527-0104

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Full name of first inventor: Alfred W. Mak

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Union City, California

Post Office Address: 32722 Fellows Court  
Union City, California 94587  
U.S.A.

Country of Citizenship: U.S.A.

Full name of second inventor: Mei Chang

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Saratoga, California

Post Office Address: 12881 Corte de Arguello

Saratoga, California 95070  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **third** inventor: Jeong Soo Byun

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Cupertino, California  
Post Office Address: 20975 Valley Green Drive #257  
Cupertino, California 95014  
U.S.A.

Country of Citizenship: South Korea

Full name of **fourth** inventor: Hua Chung

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, California  
Post Office Address: 4645 Piper Drive  
San Jose, California 95129  
U.S.A.

Country of Citizenship: Taiwan, Republic of China

Full name of **fifth** inventor: Ashok Sinha

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Palo Alto, California  
Post Office Address: 4176 Hubbart Dr.  
Palo Alto, California 94306  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: Moris Kori

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Palo Alto, California  
Post Office Address: 55 Hamilton Court  
Palo Alto, California 94301  
U.S.A.

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### PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.  
☐ Such applications have been filed as follows:

**A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119**

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

**B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application**

Country:  
 Application No:  
 Filing date:

### PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
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Full name of **first** inventor: Alfred W. Mak

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Union City, California  
Post Office Address: 32722 Fellows Court  
Union City, California 94587  
U.S.A. Country of Citizenship: U.S.A.

Full name of **second** inventor: Mei Chang

Inventor's signature: Mei Chang Date: 6/5/01  
Residence: Saratoga, California  
Post Office Address: 12881 Corte de Arguello

Saratoga, California 95070  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **third** inventor: Jeong Soo Byun

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Cupertino, California  
Post Office Address: 20975 Valley Green Drive #257  
Cupertino, California 95014  
U.S.A.

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Full name of **fourth** inventor: Hua Chung

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, California  
Post Office Address: 4645 Piper Drive  
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U.S.A.

Country of Citizenship: Taiwan, Republic of China

Full name of **fifth** inventor: Ashok Sinha

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Palo Alto, California  
Post Office Address: 4176 Hubbart Dr.  
Palo Alto, California 94306  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: Moris Kori

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

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- A. **Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119**

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
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- B. **All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application**

Country:  
Application No:  
Filing date:

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Residence: Saratoga, California  
Post Office Address: 12881 Corte de Arguello

Saratoga, California 95070  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **third** inventor: Jeong Soo Byun

Inventor's signature: Jeong J. S. Byun

Date: 6/14/01

Residence:

Cupertino, California

Post Office Address:

20975 Valley Green Drive #257

Cupertino, California 95014

U.S.A.

Country of Citizenship: South Korea

Full name of **fourth** inventor: Hua Chung

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

San Jose, California

Post Office Address:

4645 Piper Drive

San Jose, California 95129

U.S.A.

Country of Citizenship: Taiwan, Republic of China

Full name of **fifth** inventor: Ashok Sinha

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Palo Alto, California

Post Office Address:

4176 Hubbart Dr.

Palo Alto, California 94306

U.S.A.

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: Moris Kori

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence:

Palo Alto, California

Post Office Address:

55 Hamilton Court

Palo Alto, California 94301

U.S.A.

Country of Citizenship: U.S.A.

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<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Cupertino, California

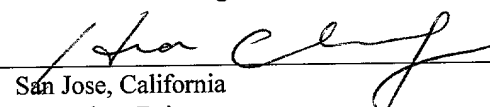
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U.S.A.

Country of Citizenship: South Korea

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Inventor's signature:  Date: 6/20/01

Residence: San Jose, California

Post Office Address: 4645 Piper Drive

San Jose, California 95129

U.S.A.

Country of Citizenship: Taiwan, Republic of China

Full name of **fifth** inventor: Ashok Sinha

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Post Office Address: 4176 Hubbart Dr.

Palo Alto, California 94306

U.S.A.

Country of Citizenship: U.S.A.

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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

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**INVENTORSHIP IDENTIFICATION**

**Mak, Alfred; Chang, Mei; Byun, Jeong Soo; Chung, Hua; Sinha, Ashok and Kori, Moris**

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

**SYSTEM AND METHOD TO FORM A COMPOSITE FILM STACK  
UTILIZING SEQUENTIAL DEPOSITION TECHNIQUES**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- ☒ is attached hereto  
☐ was filed on \_\_\_\_\_, under Serial No. \_\_\_\_\_, executed on even date herewith;  
or [\_\_\_\_\_] Express Mail No.(as Serial No. not yet known) and was amended on  
\_\_\_\_\_ (if applicable)  
☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed on  
\_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, 1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR 1.98.

### PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America or of any United States Provisional Application(s) listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- ☒ No such applications have been filed.  
☐ Such applications have been filed as follows:

**A. Prior foreign/PCT/provisional application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. § 119**

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<input type="checkbox"/> Yes	<input type="checkbox"/> No
			<input type="checkbox"/> Yes	<input type="checkbox"/> No

**B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application**

Country:  
 Application No:  
 Filing date:

### PRIORITY CLAIM (35 U.S.C. §120)

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

- ☒ No such applications have been filed  
☐ Such applications have been filed, as follows:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>	
		<u>Patented Pending</u>	<u>Abandoned</u>

### POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Joseph Bach	Registration No. 37,771
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Kenneth C. Brooks	Registration No. 38,393

**Send correspondence to:**

Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
POBox 450A  
Santa Clara, CA 95052

**Direct telephone calls to:**

Kenneth C. Brooks  
Law Office of Kenneth C. Brooks  
(512) 527-0104

### DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

Full name of **first** inventor: Alfred W. Mak

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Union City, California

Post Office Address: 32722 Fellows Court  
Union City, California 94587  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **second** inventor: Mei Chang

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Saratoga, California

Post Office Address: 12881 Corte de Arguello

Saratoga, California 95070  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **third** inventor: Jeong Soo Byun

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Cupertino, California  
Post Office Address: 20975 Valley Green Drive #257  
Cupertino, California 95014  
U.S.A.

Country of Citizenship: South Korea

Full name of **fourth** inventor: Hua Chung

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, California  
Post Office Address: 4645 Piper Drive  
San Jose, California 95129  
U.S.A.

Country of Citizenship: Taiwan, Republic of China

Full name of **fifth** inventor: Ashok Sinha

Inventor's signature: Ashok Sinha Date: 5/30/01

Residence: Palo Alto, California  
Post Office Address: 4176 Hubbart Dr.  
Palo Alto, California 94306  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: Moris Kori

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Palo Alto, California  
Post Office Address: 55 Hamilton Court  
Palo Alto, California 94301  
U.S.A.

Country of Citizenship: U.S.A.

(Declaration ends with this page)

**COMBINED DECLARATION AND POWER OF ATTORNEY**

**As a below named inventor, I hereby declare that:**

This declaration is of the following type:

- ☒ original  
☐ divisional  
☐ continuation  
☐ continuation-in-part

**INVENTORSHIP IDENTIFICATION**

**Mak, Alfred; Chang, Mei; Byun, Jeong Soo; Chung, Hua; Sinha, Ashok and Kori, Moris**

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**B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application**

Country:  
 Application No:  
 Filing date:

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Full name of **first** inventor: Alfred W. Mak

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Union City, California

Post Office Address: 32722 Fellows Court  
Union City, California 94587  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **second** inventor: Mei Chang

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Saratoga, California

Post Office Address: 12881 Corte de Arguello

Saratoga, California 95070  
U.S.A.

Country of Citizenship: U.S.A.

Full name of **third** inventor: Jeong Soo Byun

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Cupertino, California

Post Office Address: 20975 Valley Green Drive #257

Cupertino, California 95014

U.S.A.

Country of Citizenship: South Korea

Full name of **fourth** inventor: Hua Chung

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: San Jose, California

Post Office Address: 4645 Piper Drive

San Jose, California 95129

U.S.A.

Country of Citizenship: Taiwan, Republic of China

Full name of **fifth** inventor: Ashok Sinha

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Palo Alto, California

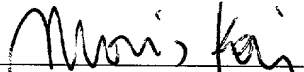
Post Office Address: 4176 Hubbart Dr.

Palo Alto, California 94306

U.S.A.

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: Moris Kori

Inventor's signature:  Date: 6.19.01

Residence: Palo Alto, California

Post Office Address: 55 Hamilton Court

Palo Alto, California 94301

U.S.A.

Country of Citizenship: U.S.A.

(Declaration ends with this page)